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Professional Standard of the People's Republic of China

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Safety Code for Lifting in Chemical Manufactory

化学品生产单位吊装作业安全规范

(English Translation)

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Safety Code for Lifting in Chemical Manufactory

1 Scope

This standard specifies the lifting operation classification, basic requirements of lifting safety management, safety inspection before lifting, safety measures during lifting, to-be-observed provisions of the operator, to-be-done works of the operator after lifting and management of Lifting Safety Operation Permit in chemical manufactory.

This standard is applicable to maintenance, repair and lifting operations in chemical manufactory.

2 Normative References

The following standards contain provisions which, through reference in this standard, constitute provisions of this standard. For dated references, subsequent amendments to (excluding corrections to) or revisions of, any of these publications do not apply to this standard. However, parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

GB2811 *Safety Helmet*
GB5082 *Commanding Signal for Lifting and Moving*
GB 6067 *Safety Rules for Lifting Appliances* (GB/T 6067-1985 NF E52 122:1975, NEQ)
GB16179 *Guidelines for the Use of Safety Signs*

3 Terms and Definitions

For the purposes of this standard, the following terms and definitions apply.

3.1
lift
the operation process to change the positions of equipment, workpieces, appliances and materials, etc. by lifting with various crane lifts during maintenance and repair

3.2
crane lift
bridge crane, portal crane, charging crane, cable crane, truck crane, wheel crane, crawler crane, railway crane, tower crane, gantry crane, mast crane, lifter, electric hoist and simple lifting equipment and auxiliary appliances

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4 Lifting Operation Classification

Lifting operation is classified into three classes by the lifting weight:

a) Class I: the lifting weight is greater than 100t;

b) Class II: the lifting weight is greater than or equal to 40t, but less than or equal to 100t;

c) Class III: the lifting weight is less than 40t.

5 Basic Requirements of Lifting Safety Management

5.1 Crane lift shall undergo daily inspection, monthly inspection and annual inspection according to the requirements of national standards, and that found defective in inspection shall be repaired with repair records saved. The inspection shall meet the requirements of GB 6067.

5.2 Lifting operator (commander and lifting workers) shall not engage in command work and operation unless having valid Permit for Special Operations.

5.3 Lifting operation scheme shall be prepared for weights greater than or equal to 40t and major structure of civil work. Lifting operation scheme, construction safety measures and emergency rescue plan shall also be prepared for weights which are less than 40t, but precise, valuable and of complicated shape, small rigidity and large length-diameter ratio, and for operations under special conditions.

5.4 Lifting operation scheme, construction safety measures and emergency rescue plan shall be implemented after reviewed by competent department and relevant management departments, and approved by safety director.

5.5 If the same weight is lifted by two or more lifting machinery, lifting and operation shall keep synchronous. The load on each lifting machinery shall not exceed 80% of its own rated lifting capacity.

6 Safety Inspection before Lifting

The following safety inspection items shall be carried out before lifting:

6.1 Relevant departments shall verify the qualifications of commander and operator.

6.2 Relevant departments shall study and discuss the safety matters concerned, and confirm the implementation condition of safety measures.

6.3 Relevant personnel of the lifting operation unit shall confirm the safety inspection of

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